

Abstract

[Problem] To realize a spark gap arrester of a sealed structure in which a follow current is eliminated by increasing voltage drop independent of an arc current and thereby preventing restrike due to a power-supply voltage after passage of a lightning current.

[Means for Resolution] In a cylindrical metal case housing a spark gap, plural magnetic material metal rings concentric with a conical or columnar electrode constituting the spark gap are arranged as arc-suppressing plates. An arc generated by passage of a lightning current is led to the arc-suppressing plate on the outer periphery, and restrike due to a power-supply voltage after passage of a lightning current is prevented by an arc voltage generated on both sides of the arc-suppressing plate.